

Section II
Soil and Site Information

Construction Materials Table 2
Melllette County, South Dakota

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AlC: Altvan-----	85	Fair Low content of organic matter Water erosion	0.12 0.99	Good		Fair Hard to reclaim	0.92
Ba: Badland-----	50	Not rated		Not rated		Not rated	
Imlay-----	30	Poor Droughty Depth to bedrock Low content of organic matter Too clayey	0.00 0.00 0.12 0.99	Not Rated Depth to bedrock	0.00	Poor Rock fragments Depth to bedrock Too Clayey Slope	0.00 0.00 0.58 0.96
Bg: Inavale-----	40	Poor Too sandy Wind erosion Low content of organic matter	0.00 0.00 0.12	Good		Poor Too sandy	0.00
Munjor-----	40	Fair Low content of organic matter Carbonate content	0.12 0.92	Good		Fair Carbonate content	0.92
Bk: Badland-----	75	Not rated		Not rated		Not rated	
Bp: Blackpipe-----	65	Fair Depth to bedrock Droughty	0.58 0.83	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.64	Fair Depth to bedrock	0.58

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Br: Bigbend-----	90	Fair Low content of organic matter Water erosion Sodium content	0.50 0.90 0.97	Good		Fair Sodium content	0.98
Bs: Wendte-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Bt: Hilmoe-----	95	Fair Low content of organic matter Water erosion	0.12 0.99	Fair Shrink-swell	0.02	Good	
Bu: Wendte-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Bv: Swanboy-----	95	Poor Too clayey Low content of organic matter Droughty Salinity Water erosion	0.00 0.50 0.95 0.97 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Salinity	0.00 0.00
Bw: Wendte-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Bx: Hilmoe-----	70	Fair Low content of organic matter Water erosion	0.12 0.99	Fair Shrink-swell	0.04	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Minatare-----	20	Poor Too alkaline Sodium content Salinity Low content of organic matter Carbonate content Water erosion	0.00 0.00 0.00 0.12 0.97 0.99	Fair Depth to saturated zone Shrink-swell	0.53 0.99	Poor Sodium content Salinity Hard to reclaim Depth to saturated zone Carbonate content	0.00 0.00 0.18 0.53 0.97
CaB: Kirley-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.21	Poor Too Clayey	0.00
CaC: Kirley-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.21	Poor Too Clayey	0.00
Ce: Cedar Butte-----	70	Poor Too clayey Low content of organic matter Salinity Droughty Water erosion	0.00 0.12 0.88 0.96 0.99	Poor Low strength Shrink-swell	0.00 0.00	Poor Too Clayey Salinity Hard to reclaim	0.00 0.00 0.08
ClE: Conata-----	60	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.88 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.92	Poor Too Clayey Depth to bedrock Slope	0.00 0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Larvie-----	35	Poor Too clayey Droughty Depth to bedrock Sodium content Low content of organic matter Water erosion	0.00 0.00 0.58 0.60 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Slope Depth to bedrock	0.00 0.37 0.58
DsC: Dunday-----	72	Poor Too sandy Wind erosion Low content of organic matter	0.00 0.00 0.12	Good		Poor Too sandy	0.00
DtB: Anselmo-----	40	Fair Low content of organic matter	0.88	Good		Good	
Dunday-----	40	Poor Too sandy Wind erosion Low content of organic matter	0.00 0.00 0.12	Good		Poor Too sandy	0.00
DuD: Dunday-----	45	Poor Too sandy Wind erosion Low content of organic matter	0.00 0.00 0.12	Good		Poor Too sandy Slope	0.00 0.84
Valentine-----	40	Poor Too sandy Wind erosion Low content of organic matter	0.00 0.00 0.12	Good		Poor Too sandy Slope	0.00 0.37

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
DvA: Duroc-----	46	Fair Low content of organic matter Water erosion	0.88 0.90	Fair Low strength	0.22	Good	
Kadoka-----	40	Fair Depth to bedrock Water erosion	0.58 0.90	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.97	Fair Depth to bedrock	0.58
DvB: Duroc-----	40	Fair Low content of organic matter Water erosion	0.88 0.90	Fair Low strength	0.22	Good	
Kadoka-----	40	Fair Depth to bedrock Water erosion	0.58 0.90	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.97	Fair Depth to bedrock	0.58
EhD: Epping-----	50	Poor Depth to bedrock Droughty Low content of organic matter Water erosion	0.00 0.00 0.88 0.90	Poor Depth to bedrock Low strength	0.00 0.22	Poor Depth to bedrock Slope	0.00 0.84
Huggins-----	30	Poor Too clayey Depth to bedrock Droughty	0.00 0.16 0.17	Poor Depth to bedrock Shrink-swell	0.00 0.89	Poor Too Clayey Depth to bedrock Slope	0.00 0.16 0.84
EhE: Epping-----	55	Poor Depth to bedrock Droughty Low content of organic matter Water erosion	0.00 0.00 0.88 0.90	Poor Depth to bedrock Slope Low strength	0.00 0.00 0.22	Poor Slope Depth to bedrock	0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Huggins-----	25	Poor Too clayey Depth to bedrock Droughty	0.00 0.16 0.17	Poor Depth to bedrock Shrink-swell	0.00 0.89	Poor Too Clayey Depth to bedrock Slope	0.00 0.16 0.63
Ge: Munjor-----	85	Fair Low content of organic matter Carbonate content	0.12 0.92	Good		Fair Carbonate content	0.92
Gp: Orthents, Gravelly--	100	Not Rated Low content of organic matter	0.00	Not Rated Slope	0.50	Not Rated Slope	0.00
Ha: Hilmoe-----	85	Fair Low content of organic matter Water erosion	0.12 0.99	Fair Shrink-swell	0.05	Good	
Hc: Interior-----	95	Poor Sodium content Low content of organic matter Water erosion Carbonate content	0.00 0.12 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Poor Sodium content Carbonate content	0.00 0.92
Hd: Hilmoe-----	90	Fair Low content of organic matter Water erosion	0.12 0.99	Fair Shrink-swell	0.05	Good	
He: Hilmoe-----	95	Fair Low content of organic matter Water erosion	0.12 0.99	Fair Shrink-swell	0.05	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
H1D: Hisle-----	44	Poor Too clayey Sodium content Droughty Depth to bedrock Salinity Water erosion	0.00 0.00 0.00 0.58 0.97 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Sodium content Salinity Depth to bedrock	0.00 0.00 0.00 0.58
Orella-----	44	Poor Droughty Depth to bedrock Too clayey Sodium content Salinity Low content of organic matter Water erosion	0.00 0.00 0.00 0.00 0.88 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Depth to bedrock Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00
HnB: Huggins-----	90	Poor Too clayey Depth to bedrock Droughty	0.00 0.16 0.17	Poor Depth to bedrock Shrink-swell	0.00 0.89	Poor Too Clayey Depth to bedrock	0.00 0.16
HnC: Huggins-----	80	Poor Too clayey Depth to bedrock Droughty	0.00 0.16 0.17	Poor Depth to bedrock Shrink-swell	0.00 0.89	Poor Too Clayey Depth to bedrock	0.00 0.16
HpD: Huggins-----	60	Poor Too clayey Depth to bedrock Droughty	0.00 0.16 0.17	Poor Depth to bedrock Shrink-swell	0.00 0.89	Poor Too Clayey Depth to bedrock Slope	0.00 0.16 0.84
Epping-----	30	Poor Depth to bedrock Droughty Low content of organic matter Water erosion	0.00 0.00 0.88 0.90	Poor Depth to bedrock Low strength	0.00 0.22	Poor Depth to bedrock Slope	0.00 0.84

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HuA: Huggins-----	60	Poor Too clayey Depth to bedrock Droughty	0.00 0.16 0.17	Poor Depth to bedrock Shrink-swell	0.00 0.89	Poor Too Clayey Depth to bedrock	0.00 0.16
Kadoka-----	30	Fair Depth to bedrock Water erosion	0.58 0.90	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.97	Fair Depth to bedrock	0.58
HuB: Huggins-----	65	Poor Too clayey Depth to bedrock Droughty	0.00 0.16 0.17	Poor Depth to bedrock Shrink-swell	0.00 0.89	Poor Too Clayey Depth to bedrock	0.00 0.16
Kadoka-----	25	Fair Depth to bedrock Water erosion	0.58 0.90	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.97	Fair Depth to bedrock	0.58
HwB: Huggins-----	40	Poor Too clayey Depth to bedrock Droughty	0.00 0.16 0.17	Poor Depth to bedrock Shrink-swell	0.00 0.89	Poor Too Clayey Depth to bedrock	0.00 0.16
Wortman-----	40	Poor Too clayey Sodium content Droughty Depth to bedrock Salinity Water erosion	0.00 0.00 0.36 0.58 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.22 0.95	Poor Too Clayey Sodium content Salinity Depth to bedrock	0.00 0.00 0.00 0.58
Ib: Imlay-----	50	Poor Droughty Depth to bedrock Low content of organic matter Too clayey	0.00 0.00 0.12 0.99	Not Rated Depth to bedrock Slope	0.00 0.00	Poor Slope Rock fragments Depth to bedrock Too Clayey	0.00 0.00 0.00 0.58

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Badland-----	25	Not rated		Not rated		Not rated	
IcD: Conata-----	40	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.88 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope	0.00 0.00 0.63
Imlay-----	40	Poor Droughty Depth to bedrock Low content of organic matter Too clayey	0.00 0.00 0.12 0.99	Not Rated Depth to bedrock	0.00	Poor Rock fragments Depth to bedrock Too Clayey Slope	0.00 0.00 0.58 0.63
IcE: Conata-----	35	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.88 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00
Imlay-----	35	Poor Droughty Depth to bedrock Low content of organic matter Too clayey	0.00 0.00 0.12 0.99	Not Rated Depth to bedrock Slope	0.00 0.00	Poor Slope Rock fragments Depth to bedrock Too Clayey	0.00 0.00 0.00 0.58
InE: Imlay-----	55	Poor Droughty Depth to bedrock Low content of organic matter Carbonate content Too clayey	0.00 0.00 0.12 0.92 0.99	Not Rated Depth to bedrock Slope	0.00 0.92	Poor Rock fragments Depth to bedrock Slope Too Clayey	0.00 0.00 0.00 0.58

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Norrest-----	35	Poor Too clayey Droughty Depth to bedrock Carbonate content Low content of organic matter Water erosion	0.00 0.57 0.58 0.80 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.12 0.92	Poor Too Clayey Slope Depth to bedrock Carbonate content	0.00 0.00 0.58 0.80
Ka: Kadoka-----	60	Fair Depth to bedrock Water erosion	0.58 0.90	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.97	Fair Depth to bedrock	0.58
Kube-----	20	Fair Water erosion	0.90	Poor Low strength Depth to bedrock Shrink-swell	0.00 0.58 0.94	Fair Rock fragments	0.88
KeD: Keota-----	50	Poor Droughty Low content of organic matter Depth to bedrock Water erosion	0.00 0.12 0.58 0.90	Not Rated Depth to bedrock	0.00	Fair Slope Depth to bedrock	0.37 0.58
Epping-----	40	Poor Depth to bedrock Droughty Low content of organic matter Water erosion	0.00 0.00 0.88 0.90	Poor Depth to bedrock Low strength	0.00 0.22	Poor Depth to bedrock Slope	0.00 0.37
Kh: Hoven-----	50	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.99	Poor Depth to saturated zone Shrink-swell Low strength	0.00 0.00 0.00	Poor Depth to saturated zone Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Kolls-----	50	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength Depth to saturated zone	0.00 0.00 0.00	Poor Too Clayey Depth to saturated zone	0.00 0.00
Ky: Kyle-----	90	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.78 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content	0.00 0.78
LaD: Lakoma-----	60	Poor Too clayey Droughty Depth to bedrock Carbonate content Water erosion	0.00 0.00 0.58 0.80 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Slope Depth to bedrock Carbonate content	0.00 0.37 0.58 0.80
Murdo-----	25	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.31	Good		Poor Too sandy Rock fragments Hard to reclaim Slope	0.00 0.00 0.00 0.37
LdD: Lakoma-----	60	Poor Too clayey Droughty Depth to bedrock Carbonate content Water erosion	0.00 0.00 0.58 0.80 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Carbonate content Slope	0.00 0.58 0.80 0.84
Okaton-----	25	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.00 0.00 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope	0.00 0.00 0.37

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LdE: Lakoma-----	50	Poor Too clayey Droughty Depth to bedrock Carbonate content Water erosion	0.00 0.00 0.58 0.80 0.99	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.00 0.00 0.08	Poor Slope Too Clayey Depth to bedrock Carbonate content	0.00 0.00 0.58 0.80
Okaton-----	35	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.00 0.00 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00
LeC: Larvie-----	72	Poor Too clayey Droughty Depth to bedrock Sodium content Low content of organic matter Water erosion	0.00 0.00 0.58 0.60 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
LfC: Larvie-----	60	Poor Too clayey Droughty Depth to bedrock Sodium content Low content of organic matter Water erosion	0.00 0.00 0.58 0.60 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope	0.00 0.58 0.63
Conata-----	25	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.88 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope	0.00 0.00 0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LhC: Larvie-----	43	Poor Too clayey Droughty Depth to bedrock Sodium content Low content of organic matter Water erosion	0.00 0.00 0.58 0.60 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Hisle-----	42	Poor Too clayey Sodium content Droughty Depth to bedrock Salinity Water erosion	0.00 0.00 0.00 0.58 0.97 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Sodium content Salinity Depth to bedrock	0.00 0.00 0.00 0.58
LmB: Larvie-----	50	Poor Too clayey Droughty Depth to bedrock Sodium content Low content of organic matter Water erosion	0.00 0.00 0.58 0.60 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Metre-----	20	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.00 0.58 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
LOA: Lowry-----	85	Fair Low content of organic matter Water erosion	0.50 0.90	Fair Low strength	0.22	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LoB: Lowry-----	90	Fair Low content of organic matter Water erosion	0.50 0.90	Fair Low strength	0.22	Good	
Ls: Lowry-----	70	Fair Low content of organic matter Water erosion	0.50 0.90	Fair Low strength	0.22	Good	
Slickspots, Dry----	20	Not rated		Not rated		Not rated	
MaD: Manter-----	50	Poor Too sandy Low content of organic matter	0.00 0.50	Good		Poor Too sandy Slope Rock fragments	0.00 0.37 0.97
Anselmo-----	30	Fair Low content of organic matter	0.88	Good		Fair Slope	0.37
McE: Manter-----	60	Poor Too sandy Low content of organic matter	0.00 0.50	Fair Slope	0.92	Poor Slope Too sandy Rock fragments	0.00 0.00 0.97
Sansarc-----	20	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.92	Poor Too Clayey Depth to bedrock Slope	0.00 0.00 0.00

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Construction Materials Table 2
Mellette County, South Dakota

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MfC: Manter-----	50	Poor Too sandy Low content of organic matter	0.00 0.50	Good		Poor Too sandy Rock fragments	0.00 0.97
Tuthill-----	20	Fair Low content of organic matter	0.12	Good		Good	
MlB: Millboro-----	60	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Reliance-----	30	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Low strength Shrink-swell	0.00 0.69	Poor Too Clayey	0.00
MlC: Millboro-----	60	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Reliance-----	30	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Low strength Shrink-swell	0.00 0.69	Poor Too Clayey	0.00

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Construction Materials Table 2
Melllette County, South Dakota

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Mm: Minatare-----	75	Poor Too alkaline Sodium content Salinity Low content of organic matter Carbonate content Water erosion	0.00 0.00 0.00 0.12 0.97 0.99	Fair Depth to saturated zone	0.53	Poor Sodium content Salinity Hard to reclaim Depth to saturated zone Carbonate content	0.00 0.00 0.18 0.53 0.97
Mn: Bigbend-----	90	Fair Low content of organic matter Water erosion Sodium content	0.50 0.90 0.97	Good		Fair Sodium content	0.98
Mo: Mosher-----	80	Poor Sodium content Low content of organic matter Too clayey Salinity Water erosion	0.00 0.12 0.76 0.88 0.99	Fair Shrink-swell	0.66	Poor Salinity Too Clayey Sodium content Hard to reclaim	0.00 0.44 0.90 0.98
MrC: Murdo-----	70	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.31	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
MsD: Murdo-----	50	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.31	Good		Poor Too sandy Rock fragments Hard to reclaim Slope	0.00 0.00 0.00 0.63

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lakoma-----	30	Poor Too clayey Droughty Depth to bedrock Carbonate content Water erosion	0.00 0.00 0.58 0.80 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope Carbonate content	0.00 0.58 0.63 0.80
MuD: Murdo-----	60	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.31	Good		Poor Too sandy Rock fragments Hard to reclaim Slope	0.00 0.00 0.00 0.37
Schamber-----	30	Poor Too sandy Droughty Low content of organic matter	0.00 0.00 0.50	Good		Poor Too sandy Hard to reclaim Rock fragments Slope	0.00 0.00 0.00 0.37
NlC: Norrest-----	72	Poor Too clayey Droughty Depth to bedrock Carbonate content Low content of organic matter Water erosion	0.00 0.57 0.58 0.80 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to bedrock Carbonate content	0.00 0.58 0.80
Nm: Norrest-----	65	Poor Too clayey Droughty Depth to bedrock Carbonate content Low content of organic matter Water erosion	0.00 0.57 0.58 0.80 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to bedrock Carbonate content	0.00 0.58 0.80
Badland-----	20	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
NoA: Norrest-----	60	Poor Too clayey Droughty Depth to bedrock Carbonate content Low content of organic matter Water erosion	0.00 0.57 0.58 0.80 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to bedrock Carbonate content	0.00 0.58 0.80
Blackpipe-----	25	Fair Depth to bedrock Droughty	0.58 0.83	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.64	Fair Depth to bedrock	0.58
NoB: Norrest-----	65	Poor Too clayey Droughty Depth to bedrock Carbonate content Low content of organic matter Water erosion	0.00 0.57 0.58 0.80 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to bedrock Carbonate content	0.00 0.58 0.80
Blackpipe-----	15	Fair Depth to bedrock Droughty	0.58 0.83	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.64	Fair Depth to bedrock	0.58
NrC: Norrest-----	55	Poor Too clayey Droughty Depth to bedrock Carbonate content Low content of organic matter Water erosion	0.00 0.57 0.58 0.80 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to bedrock Carbonate content	0.00 0.58 0.80

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cedar Butte-----	30	Poor Too clayey Low content of organic matter Salinity Droughty Water erosion	0.00 0.12 0.88 0.96 0.99	Poor Low strength Shrink-swell	0.00 0.00	Poor Too Clayey Salinity Hard to reclaim	0.00 0.00 0.08
NsC: Norrest-----	60	Poor Too clayey Droughty Depth to bedrock Carbonate content Low content of organic matter Water erosion	0.00 0.57 0.58 0.80 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to bedrock Carbonate content	0.00 0.58 0.80
Imlay-----	30	Poor Droughty Depth to bedrock Low content of organic matter Carbonate content Too clayey	0.00 0.00 0.12 0.92 0.99	Not Rated Depth to bedrock	0.00	Poor Rock fragments Depth to bedrock Too Clayey	0.00 0.00 0.58
NsD: Norrest-----	60	Poor Too clayey Droughty Depth to bedrock Carbonate content Low content of organic matter Water erosion	0.00 0.57 0.58 0.80 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Slope Depth to bedrock Carbonate content	0.00 0.37 0.58 0.80
Imlay-----	30	Poor Droughty Depth to bedrock Low content of organic matter Carbonate content Too clayey	0.00 0.00 0.12 0.92 0.99	Not Rated Depth to bedrock	0.00	Poor Rock fragments Depth to bedrock Slope Too Clayey	0.00 0.00 0.37 0.58

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
NtB: Norrest-----	45	Poor Too clayey Droughty Depth to bedrock Carbonate content Low content of organic matter Water erosion	0.00 0.57 0.58 0.80 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to bedrock Carbonate content	0.00 0.58 0.80
Okreek-----	45	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.55 0.90 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.90
OcC: Opal-----	90	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
OgC: Opal-----	90	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
OlB: Opal-----	60	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Kirley-----	30	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.21	Poor Too Clayey	0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OlC: Opal-----	65	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Kirley-----	25	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.21	Poor Too Clayey	0.00
OmB: Opal-----	62	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Mosher-----	30	Poor Sodium content Low content of organic matter Too clayey Salinity Water erosion	0.00 0.12 0.76 0.88 0.99	Fair Shrink-swell	0.66	Poor Salinity Too Clayey Sodium content Hard to reclaim	0.00 0.44 0.90 0.98
OpB: Opal-----	60	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Promise-----	30	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OtB: Opal-----	60	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Tuthill-----	30	Fair Low content of organic matter	0.12	Good		Good	
OtD: Opal-----	60	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope	0.00 0.58 0.84
Tuthill-----	30	Fair Low content of organic matter	0.12	Good		Fair Slope	0.84
OwC: Opal-----	70	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Woodly-----	15	Good		Good		Good	
Ox: Orella-----	45	Poor Droughty Depth to bedrock Too clayey Sodium content Salinity Low content of organic matter Water erosion	0.00 0.00 0.00 0.00 0.88 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Depth to bedrock Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Rock Outcrop, Soft--	30	Not rated		Not rated		Not rated	
PcA: Promise-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
PcB: Promise-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Pd: Wendte-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
PgA: Opal-----	45	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Promise-----	45	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
PgB: Opal-----	45	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Promise-----	45	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
PmA: Promise-----	70	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Mosher-----	20	Poor Sodium content Low content of organic matter Too clayey Salinity Water erosion	0.00 0.12 0.76 0.88 0.99	Fair Shrink-swell	0.66	Poor Salinity Too Clayey Sodium content Hard to reclaim	0.00 0.44 0.90 0.98
Ps: Wendte-----	65	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Slickspots, Dry----	25	Not rated		Not rated		Not rated	
ReB: Ree-----	90	Fair Low content of organic matter Too clayey	0.12 0.98	Fair Shrink-swell	0.87	Fair Too Clayey	0.81
RkA: Ree-----	43	Fair Low content of organic matter Too clayey	0.12 0.98	Fair Shrink-swell	0.87	Fair Too Clayey	0.81
Keya-----	42	Fair Low content of organic matter	0.12	Good		Good	
RkB: Keya-----	45	Fair Low content of organic matter	0.12	Good		Good	

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ree-----	45	Fair Low content of organic matter Too clayey	0.12 0.98	Fair Shrink-swell	0.87	Fair Too Clayey	0.81
SaE: Samsil-----	90	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.00 0.00 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00
SlD: Okaton-----	50	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.00 0.00 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope	0.00 0.00 0.37
Lakoma-----	40	Poor Too clayey Droughty Depth to bedrock Carbonate content Water erosion	0.00 0.00 0.58 0.80 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Slope Depth to bedrock Carbonate content	0.00 0.37 0.58 0.80
SlE: Okaton-----	60	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.00 0.00 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00
Lakoma-----	25	Poor Too clayey Droughty Depth to bedrock Carbonate content Water erosion	0.00 0.00 0.58 0.80 0.99	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.00 0.08	Poor Slope Too Clayey Depth to bedrock Carbonate content	0.00 0.00 0.58 0.80

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SmE: Sansarc-----	50	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00
Manter-----	30	Poor Too sandy Low content of organic matter	0.00 0.50	Fair Slope	0.08	Poor Slope Too sandy Rock fragments	0.00 0.00 0.97
SnE: Sansarc-----	70	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00
Schamber-----	20	Poor Too sandy Droughty Low content of organic matter	0.00 0.00 0.50	Poor Slope	0.00	Poor Slope Too sandy Hard to reclaim Rock fragments	0.00 0.00 0.00 0.00
Ss: Sansarc-----	70	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00
Rock Outcrop, Soft--	20	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
St: Valentine-----	45	Poor Too sandy Wind erosion Low content of organic matter	0.00 0.00 0.12	Good		Poor Too sandy Slope	0.00 0.00
Whitelake-----	30	Poor Sodium content Low content of organic matter Salinity	0.00 0.12 0.88	Good		Poor Sodium content Salinity	0.00 0.88
SuA: Reliance-----	80	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Low strength Shrink-swell	0.00 0.69	Poor Too Clayey	0.00
SuB: Reliance-----	80	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Low strength Shrink-swell	0.00 0.69	Poor Too Clayey	0.00
SuC: Reliance-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Low strength Shrink-swell	0.00 0.69	Poor Too Clayey	0.00
SvE: Schamber-----	60	Poor Too sandy Droughty Low content of organic matter	0.00 0.00 0.50	Fair Slope	0.50	Poor Slope Too sandy Hard to reclaim Rock fragments	0.00 0.00 0.00 0.00

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Construction Materials Table 2
Melllette County, South Dakota

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Murdo-----	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.31	Fair Slope	0.50	Poor Slope Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00 0.00
SwE: Schamber-----	50	Poor Too sandy Droughty Low content of organic matter	0.00 0.00 0.50	Poor Slope	0.00	Poor Slope Too sandy Hard to reclaim Rock fragments	0.00 0.00 0.00 0.00 0.00
Sansarc-----	40	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00 0.00
Sy: Stirk-----	95	Poor Too clayey Low content of organic matter Carbonate content Water erosion	0.00 0.50 0.92 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Salinity Carbonate content	0.00 0.88 0.92
ThB: Tuthill-----	90	Fair Low content of organic matter	0.12	Good		Good	
ToC: Tuthill-----	60	Fair Low content of organic matter	0.12	Good		Good	

Section II
Soil and Site Information

Construction Materials Table 2
Melllette County, South Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Opal-----	20	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
TuB: Tuthill-----	45	Fair Low content of organic matter	0.12	Good		Good	
Whitelake-----	45	Poor Sodium content Low content of organic matter Salinity	0.00 0.12 0.88	Good		Poor Sodium content Salinity	0.00 0.88
TwA: Tuthill-----	60	Fair Low content of organic matter	0.12	Good		Good	
Woodly-----	30	Good		Good		Good	
TwB: Tuthill-----	60	Fair Low content of organic matter	0.12	Good		Good	
Woodly-----	25	Good		Good		Good	
VaE: Valentine-----	80	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.71	Poor Slope	0.00	Poor Slope Too sandy	0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated		Not rated	
Wa: Wanblee-----	50	Poor Droughty Depth to bedrock Salinity Sodium content Water erosion	0.00 0.58 0.88 0.90 0.99	Not Rated Depth to bedrock	0.00	Poor Salinity Depth to bedrock Sodium content	0.00 0.58 0.90
Whitelake-----	30	Poor Sodium content Low content of organic matter Salinity	0.00 0.12 0.88	Good		Poor Sodium content Salinity	0.00 0.88
WbB: Wanblee-----	50	Poor Droughty Depth to bedrock Salinity Sodium content Water erosion	0.00 0.58 0.88 0.90 0.99	Not Rated Depth to bedrock	0.00	Poor Salinity Depth to bedrock Sodium content	0.00 0.58 0.90
Wortman-----	30	Poor Sodium content Droughty Depth to bedrock Salinity Water erosion	0.00 0.50 0.58 0.88 0.99	Poor Depth to bedrock Low strength	0.00 0.22	Poor Sodium content Salinity Depth to bedrock	0.00 0.00 0.58
Wd: Woodly-----	80	Good		Good		Good	
WoB: Woodly-----	65	Good		Good		Good	

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Mellette County, South Dakota

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Opal-----	20	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.03 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Ww: Wortman-----	37	Poor Sodium content Droughty Depth to bedrock Salinity Water erosion	0.00 0.50 0.58 0.88 0.99	Poor Depth to bedrock Low strength	0.00 0.22	Poor Sodium content Salinity Depth to bedrock	0.00 0.00 0.58
Wanblee-----	36	Poor Droughty Depth to bedrock Salinity Sodium content Water erosion	0.00 0.58 0.88 0.90 0.99	Not Rated Depth to bedrock	0.00	Poor Salinity Depth to bedrock Sodium content	0.00 0.58 0.90

